MINES AND MINING STOCKS

"DOLLAR ROCK" ALMOST HERE

Cost of Handling Copper Rock Being Gradually Decreased

advantage in the mining industry. Not let, iong ago, all driffing in mines was '7 mining industry began to have visions in forward. or "dollar rock"-rock broken, hoisten, and on board cars at one dollar a The recently published report on the Copper Industry in Michigan, ing devoted to reducing costs. The men sent out from the mining schools, Michigan College of Mines, have be-

t'onservation realized us to every de s utilization of by-products, as complient me in a meat-packing estabishment—this is what the Metallurgy class of the Machigan College of Mines stant of the Pioneer fron company at Morametre, Machinente

M. C. M. Students at Marquette.

cornized in the profession.

which is used in our wheels and seits at a premium of 42 a ton, incidentally, in the uniting of cord-wood into charcoult for its blust farmace, in the blasteven beings pilts. The smoke and gross from the charcoal kilns, the ere all got to use. Some of the proresults are mappingered, became workof out at great cost by their expert

office, thus having a full day at the bill mettle plant, and a charge to see both the

M. C. M. Winter Courses

plus of mining at the Michigan College I Mines down but clart until the wifeor rems. The features of this contraon Problem Speece nectures on the periods phones of mining-prospecting of the contration and the Seturica rupe recrise enough nitings of the The man getting to the magneone with the rise shift. They spotel the college foremoon; underground, the weening continues building them to the will and deeped parts of the migres. agent-ner not constanted to syesstoring armition by the country.

The manage department of the Many new students enter at this time

"First Aid to Injured."

Mr. C. W. Sparks, new physical diregion of the Michigan Coffege of Momen offers for the winter term of course in First Aid to the Injurest-The course will embody semewhat the most features of such a course, but will consider especially accidents are: mineries in mines, stamp mills and caselters. the transporting of a man inrescue, mine figurene and personings in the mining industry.

The winter term begins after the Lollibus, January 7th. New courses, legin in all the departments, especial is in the Department of Mining Encincering. Many new students always enter he this time.

Lincoln Memorial society of New England plans elaborate celebration of emancipation day in Hoston, January

MICHIGAN COLLEGE OF MINES

F. W. McNair, President. located in Lake Superior districk. Mines and mills secondible for college work. For Year Pock and Record of Graduates apply to

President or Se. cetary, HOUGHTON, MICHIGAN.

BROKERS' GOSSIP

Michigan,

Exploratory work has been resume the Michigan property in Outcompon Ore Shipments Larger and Re county under the direction of Supt. Samuel Brady. A shaft has been sunk in the horizon of the Ogima lode through the overburden and into settled territory. As a depth of 55 feet How the head has been made to a crosscut has been started north

by hand with a hammer. The air drill tensive discoord brilling work which pany has been in as good position to came and our costs in two. A few was conducted at this property about turn out the rea metal as at presen years ago a lighter type of drill, a a year and a half ago. The drills on every level from the 1.800-level one-man drill , was introduced, and at that time showed copper bearing to the 2,830-10ct level mining is being drilling costs were again sliced. Some rock of a nature to warrant the furth-

compiled by R. E. Hore of the Michi- the Centennial have been showing been increased, the reserve supply is compiled by R. E. Hore of the Mich. Osodogical Survey, shows that one more noticeable in the quality of rock incressary to close down the Speculato after is breaking, housting, hauling and in the general betterment of news shart 4, order to sumit of rotimberand stamping copper rock at \$1.14 a cr and more northerly openings that an examination just complettoo, that live mines are doing all this any material advance in production, cal shows that the shart is in much ander \$1.50 a ton. Whereas in 1908 Many of the men working underground better condition than was expected there were eight mines with costs in the drifts toward the Wolverine ter- and it has been decided that work can over \$2.00, today there are but three ratory are enthusiastic ever the recent by carried along at least during the one mine has reduced its costs by opening in this part of the mire and entire winter without the least interand in four years, others by \$0.38, are purchasing the stock against time raption. In the meantime the work or \$0.31, and \$0.30. Every dollar saved when these openings into this rich setin handling rock makes a mine so then of the Kearsurge sode will become much the richer, increases by so much a dominant factor in the rock output the resources, the taxable property of the Centennial mine. There are of and a station is being cut. This work course but a comparatively few latreductions in cost in the milling of crais that are approaching the Wolcopper. The best talent of the mining verme line but the fact remains that while these drifts did not, until were recently show the quality of rock artimpated for them, the display at presnotable in copper mining from the ent is far more encouraging and plainy indicates that the Centermal will "efficiency engineers," and the come into its own in this part of the share they have had in reducing costs mine

Of greatest importance cencerning be noticed at this property of late and output for the mostly of Nevember. and a chance to study hist Saturday Every small mine in this section is at the blost furnace and by-products trying to get our as much rock as possuble while copper is at such as high The company has its own mines instances the sames are sacrificing und its own forests. From those it quality for quantity, feeling that a five source, can Thompson, Towie & ittos with copper at seventeen and a the Clermont have opened up quite usir cents than at twelve and a hair, body of ore averaging approximately With many of them the one difficulty 530 a ton gross acetic cold, alreaded, enhancement, and in military substantial increases in This ore differs from the rold mill-

heated gases from the blast furnace, therefore, to note that this mine is national Smelter at Toole, where s an annual event for the classes in the past year. In fact there has been a is possible that the ore body may show shall train comen in copper contents, persistence and continue downward metallarge. The men went down on state trajectories in copper contents, personner and continue downward.

Friday coming and returned Sunday of artiflant, since the in rouse in rolls. The final report of Goldfield Con

SUPERIOR & BOSTON.

The granted course to the parties. Developments in the Property Gratifying to Management. The tile in Armona, Silver Belt of

> venue have been extremely gratify inv portant eto the sperocement, for not only has with interest, the vicinity of its discovery Rulyes a write stea for the probable trout of the one body to be followed before the

to, the east doit of the ath level for the destribus progressed a few feet American stocks were off in London burther, to explore the etc body her and opened lower here. The profesmostly. The re in the face of the drift sonal trading tement being bearish corpus on starting is all of the other last the rely level the ere body new her an effort towards lower prices. This after the poisters, on Julius 7th ing explored is 700 feet shall of the ore succeeded in a measure but not to any heretofore developed and mined by extent. The trading was all profesthis company, being in entirely new sional.-I. J. Sturgis. perpaters and so the cost side lines of the Superior & Pleaten are till 1900 lest distinct the cuttient for the levelstement of large belief of the geome

> on the 12th least ernes-cuttery north toward the Old Dominion fault is still progressing and the great change of inclus the past few days leads the management of the mine to bell-ve that it is possible they may be 10 pre-Kimiti to the year. South an the the level in drifting on what appears be the Great Electern vein some halcongrite and bornite has been en-

The significance of any material necelopment of the Superior & Boston the whole Copper Hill district as well by to this section of the county in general makes and news concern mg the property welcome information o the entire Globes Musmi district.

Moreover the Integrity and compence of the management and its resethe perseverance in the face of a long period of in onclusive development of ore makes the present encouraging showing a matter of muticfaction to oversome interested in the mining Sereleasment of this region.

W. E. Taylor, 60 Chainesville, Texas the other day enjoyed the first train ride of his life.

NORTH BUTTE IN GOOD SHAPE

serve is increased

save the hand has been shown to good. This prosecut is running in the hang- wall increase its production th's month ing wall of the Oxima to tap the Port to the extent or about 250,000 pourage and thus marries will be maintained. These operations are based on ex- it has been a leng time since the combeing very largely confined to develop ment at the present time, only a versmall amount of ore noing to the sur General underground conditions at face . While the ore shipments have sinking the shall of the Granite Mountain will be cushed alone. A depth of completed there will be a crossout rut of about 75 feet to connect with the other workings and then shaft sinking will be resumed. It is probable that the shaft will be carried down 800 feet farther. An examination of hoisting apprintes is being conducted with a view of arriving at a corclusion a to providing a better and more econemical means of bringing ore to the the general interest in the Centennial favorable reports have been received surface than by steam. Some very mage and in mineral output that is to as to electricity, and an investigation is now proceeding leeking to the cos that will make itself supported in the of installing in the Granite Mountain shaft an electric hoist of the latest and most improved pattern,

GOLDFIELD CONSOLIDATED.

We understand from an authorita poorer grade of rock run be sent to Co. that developments at the Goldhele the mill and made a profitable propose. Consolidated on the 1886-foot level of

rock shipments lies in the labor sears ling one which is the mainstay of the property: if contains copper and b It is creditable to the Centennial, smelled direct, being sent to the Internding advantage of the higher price dat rate of \$2 is obtained. After alor copper appropriate any alimination is lowers for freight mining and all exthe quality of made. Shipments are between it should return a profit of beined that it line been said that the new averages close to 500 tone daily, around \$45 per ton. This are body i resuld be operated at a profit whereon they formerly run between 350 located in the deepest workings of the even if its from did not sell for as talking the standard of mineral ex enderiving state, which formation which formation To a trip to the Marquette Smeller Fultion that has been observed for continues in depth. In view of this i

> solidated for September, which has earne to bond states that during the month several discoveries of con «iderable importunce were made, suffined to the intermediate and upper levels. The great future of Goldfield is in depth, and the further opening of the ore body on the 1200-foot level of At the Supermer & Thesten recent the Clermont is however, of more 9m

STOCKS

ractically 180 feet of commercial ore. Boston—European markets were up as there parsed through and a raise set again this morning over the Balkone at that point to assertain to, an situation, although current newsthat height and extent the one abtaints paper comment did not indicate any there. A winze also will be negunially especial reason for it. As a result - f an innertally encouraging nature, almost to a man, advantage was taken ome of it running 30 per sent coppers of the foreign unsettlement to make

BOSTON STOCK	S.	
(From Paine, Webber 6	Co.,	ar
Gay & Sturgis.)		
Amalgamated	NE 25	3.4
Adventure	536	- 6
Allouez	41	12
Algorith	23.54	3
Areadian vi vi	214	
Ahmeek	25	350
Aris. Conmercial	78	. 1
Boston Corbin	5	- 6
Butte & Balk.	4	- 3
Butte & Superior	46	16
Copper Range	56	0.6
Calumet & Arizons		78
Calemet & Hech	300	588
Centennial	19%	20
	46.56	9.6
Daly West	3.%	- 4
East Butte	14%	3.7
Franklin	9.56	
Granby concerned		10
freens Canones	9.94	- 4
Hancock	25	20
Hedley Gold	2515	13
Indiana	16%	- 11
Inspiration	19%	28
Isle Royale	2536	36
Keweenaw	2	- 3
Lake Courses	29%	38
in Salle	514	
Manne or the value or the contract	45	- 1
Mismi	27.54	2
Michigan	1%	-
The second secon	- 400	



COME IN!

You Will Receive Courteous Treatment and Be Shown the Way to Success and Happiness

Mohawk 64	6450	Welverine & Arizona 80
Mayflower 16 4	16%	
North Lake 31/2	4	TODAY'S SALIS.
North Eatte 35%	35%	
Nipissing 819	876	Ariz. Com
Olg Dominion	571	Butte & Balk
Daecola	210	Chino
Milliway	334	Copper Range
Hd Colony 5%	10	Calumet & Arizona
Jumey seesaway St	87	East Butte
day Consolidated 21%	2174	Greene Cananea
Superior & Boston 2%	214	Isle Royale
Superior 4236	4435	Indiana
Shannon 114	1435	Inspiration
Shattuck	2236	Lake
Pamarack 41	424	Mass
tah Copper	63	Miami
Victoria 216	2%	Mayllower
Winoma 14.	115	Mohawk v
Wolverine 73	74	Nipissing
Wyandot 154	1.5	North Butte
		Old Colony
NEW YORK STOCKS.		Old Dominion
		Osceola
Annal. rever correct macroscope	8334	Shattuck
Amiconda	. 300	Superior & Boston
Smelters		Shannon
Reading		Utali Copper
Property and an address of the same of the	A 4 4 7 7 18	Weltranian

Cnion Pacific Missouri Pacific Laterry Access As German copper consumers close Pennsylvania 123

'an. Pacific 263 South Pacific 111 J. A. Minnear & Co. say today: The markets were a trifle lower to-York list. The coppers followed the

lend today of \$715 cents, payable Dec. days, if to stock of record Dec. 5, the folowing dividends were declared: Utab copper, 75 cents, payable Dec. 21 of ecord Dec. 6; Wettlaufer regular quarterly 5 cents, payable Jan. 20 of 12% cents, payable Jan. 20 of CLASSIFIED ADS record January 4; Nevada-Douglas

12% cents payable Feb. 1 of record

Northern Pacific 123%

CURB STOCKS.

۱	Jan. 10		
١	(J. A. Minnear & C	(.0.)	
i	Algometi	1000	- 4
1	Alimeek		2539
Ī	Arneld	1	1
i	Butte Balk,	4	4
١	(tchemia		- 3
ı	Chemung	The state of the s	300
l	Chief Consolidated		1
١	Columbus Cons	.15	12
١	Chino Its assessment	4634	142
١	Calumet & Mont.	.18	
١	Corbin Copper	25	
I	Denn Arizona	616	45
١	Joldfield Cons	2%	2
ì	mondago	4 % (8)	R
l	Stutte & London	.45	
	-Hrotx	434	
j	Houghton Copper	856	- 9
d	Homestake	98	102
Ì	Hancock	200	26
	Indiana	16	17
	Inspiration	201	20
	Koweensw	2	12
	Keating	176	. 3
	La Rese	20	2
	Lake Copper		
Ŋ	L S. & A		N. 15
	Mayflower		16
	Miami	27%	27
ľ	New Resistence		2
ķ	Nipissing		8
1	North Lake	216	- 4
	-Inergy	160	1.19

Old Celeny :

Ray Consolnated 21%

South Heela Superist & Globe Terror

Superior & Serion

South Lake

% Tonopah 6%

Hay Central 25/Eid

	TODAY'S SALIS.	
U _A		
16		1
i.	Burte & Palk	14
	Chino	61
14	Copper Range	1
	Calomet & Arizona	i
	East Butte	23
2	Greene Cananea	20
4	Isle Royale	6
Z.		4
Q.	Inspiration	
Ž.	Lake	21
8	Mass	
	Miami	12
	Mayllower I	
	Mohawk	
	Nipissing	
1	North Butte	
	Old Colony	
		9
	Caccola	7
16	Shattuck	
4		72
		~
ŝ.	Mannon	5
Ñ.	Utali Copper	
1	Wolverine	5
L.	The second secon	

ENGLAND BUYING COPPER.

their plants yesterday in observance of a national holiday in that empire, no additional purchases of the red metal were made for their account English manufacturers of electrical equipment and brass products, however, continued to contract extensively with the American producers cover ing principally their December and January requirements. The metal thus brought aggregated 3,600,600 bounds as. Call money was marked up to at 17% e for the electrolytic and 17.60 12 per cent and this caused a reaction —11.55c for the casting grades. Sales of a little over a point in the New agents for the domestic producers ex per leneral considerable end of the rails. The announcement arranxing for shipments of the metal a 50-cent extra dividend on Neva- which had recently been perchased by la Cons. failed to create even a ripple. To man consumers, as it There was a little demand for South, cred that no additional freight reor western Mlami. South Lake has a in ships sailing from New York t-reod-booking amygdalold vein, in botom of shaft. T hey are still in the tained until December 3 and 14 recein, and it shows well mineralized spectively. Demestic consumers in the for six feet. S. & B. 5th level drift is Niconatuck Valley bought mederately n ore for 220 feet, and upraise is in from the producers for January de setter grade of ore. Pace of upraise livery and mach larger purchases for eported now running 19 per cent cop- that mouth are expected to be made er. Besides the Nevada Cons. divis by these users within the next fee

WANTED.

3 CENTS A POUND paid for clean white cotton rags. No scraps, Calumet News office.

HELP WANTED-FEMALE. WANTED - Won an for housework. Small family, W. G. Mchrens, Wolverine.

FOR RENT-A desirable room, suit ery modern conventence, including Sectric light, steam heat, both, etc. Apply J. F. G. News office.

OST -Female bound Yellow with

white breast white star on forehead end white nose, Long ears, Finder no tify Lacorance Capello, 112 Ogceola St. Laurium and receive reward. Dec.

EMPLOYES

Calumet & Hecla M'ng Co

Who wish to sell their houses or buy houses on Co. Land: who have room to rent or who wish to rent rooms, are invited to advertise in this column without any expense.

FOR SALF -8-room house, 4982 Elm SIL

OR RENT-Rooms, Apply 3931 Templa St. rooms to rent. 341 Caled St. FOR SALE 5-room house, 2016 Calu-

met ave.

Paine, Webber & Comp'y

BANKERS AND BROKERS.

PRIVATE WIRE.

· Hoston, Mass., Nov. 25.-Hoth markets today reached a lower level. Tight money was the excuse for the reaction in New York and the local movement was sympathetic. On scattered selling, Granby, Copper Range, Mayflower and Old Colony lost about a point. The volume of business was very small but the largest part of the orders were on the selling side. The market is still almost entirely limited to operations by oor traders and liable to move much either way until there is more widespread general interest.

W. L. STANNARD, MGR., CALUMET BRANCH

J. A. MINNEAR & CO. BROKERS

MARKETS AT A GLANCE

NEVADA CONS. DECLARED EXTRA DIVIDEND OF 50 CENTS. CALL MONEY WAS MARKED UP TO 12 PER CENT. MARKETS SLIGHTLY LOWER.

Salt Lake, Cobalt and Tonopah Stocks Quoced Constantiv Calumet, Mich. Laurium Mich.

Members Boston'and New York Exchanges

Private Wires to all the Leading Exchanges

GAY & STURGIS

Calumet Branch Phones 813-814-829

Roy A. Young Resident Manager

OR SALE-Five room house, 852 Al- FOR SALE House 1549 Hecla bion.

FOR SALE-Seven-room house, 369 Caledonia St., Calumet, Mich. OR SALE-10 Room House. Apply

4228 Acorn St. OR SALE-7 room house, 3982 Osceola Road, Newtown.

OR SALE-Lot 5, block 3 Wolverine St. Florida. Apply at Mrs. Chap- the Probate Office, in the Village of nan's boarding house, 122 Kearsarge Houghton, in said County. on the St. south.

FOR SALE-1525 Heela St.

COR SALE-7-room house, 4087 Cone

FOR SALE-House, No. 4036 Oak St.

Yellow Jacket. FOR SALE-3129 Tonnel St. FOR SALE-5-room house, cheap, 345 Caledonia St.

FOR SALE-House, 9 rooms, bath-4335 Elm St., Yellow Jacket.

OR SALE-House No. 457, Caledonia St., Albion. OR SALE-7-room house and barn

2507 D St. OR SALE-House No. 3133 Tunnel

St., Swedetown, OR SALE-6-room house, No. 3044

Swedetown road. Apply on premires OR SALE-House, No. 4083 Elm St. Yellow Jacket. OR SALE-Nine room house with

bath room, stone foundation, steam eat, electric light and hardwood floors lownstairs, large attic, also front and back stairs. Terms reasonable. Apply 1503 School St.

FOR SALE-9-room house, modera conveniences steam heat, good trandation and plumbing, Apply 850 Cam-

FOR SALE-9-room house, summar kitchen, coal shed, barn room for FOR RENT—A desirable room, suit-able for one or two young men, ev-tlecla. A \$2,500 house for \$1,500. FOR RENT-6 room house No.

> Franklin St. Florida. FOR SALE -1-room house. No. 499' behind Calumet dam, inquire witht

> FOR RENT-Four rooms, 4261 Cor. 11th and Pine Sts.

> FOR SALE-House, 1516 Hecla St. FOR SALE-8-room house, 730 Waterworks St.

FOR SALE-8-room house, No. 279 on Caledonia St. Particulars at Wickstrom & Co.'s store, Pine St. Hecia. Rock foundation.

FOR RENT-One furnished 4325 Acorn St.

FOR SALE-Eight room nouse, 3212 Ridge St. FOR SALE-Six-room house, Laurium St.

WANTED-Boarders, 2957 Wedge St. Calumet. SOE SALE-II-room house Apply

250 Rockland St.

FOR SALE-12-room house. Laurium St.

LEGAL ADVERTISEMENT.

Nov. 4-11-18-25 STATE OF MICHIGAN.

The Probate Court for the County of Houghton. At a session of said Court, held at

first day of Nov. A. D., 1912. Present: Hon, George C. Bentley,

Judge of Probate. In the Matter of the Estate of Rudolph E. Nelsen, Deceased

Gust E. Nelson, Administrator of said Estate, having filed in said Court his petition praying that the time for the presentation of claims against said estate be limited and that a time and Tlace he appointed to receive, examme and adjust all claims and demands against said deceased by and before ald Court.

It is Ordered. That four months from this date be allowed for creditors to present their claims against said estate.

It is Further Ordered, That the 5th day of March, 1913, at ten o'clock in the forenoon, at said Probate Office. be and is hereby appointed for the examination and adjustment of all laims and demands against said deceased, and that notice thereof be given by publication once each week for three successive weeks previous to said day of hearing, in the Caiumet News, a newspaper printed and irculated in said County.

(Seal) A true cepy. Lillas G. Mitchell.

Register of Probate. LEGAL ADVERTISEMENT.

Nov. 4-11-18-25 STATE OF MICHIGAN.

The Probate Court for the County of Houghton. At a session of said Court, held at

the Probate Office, in the Village of Houghton, in said County, on the 1st ray of October A. D. 1912.

Present: Hon. Geo, C. Bentley, Judge of Probate. In the Matter of the Estate of Wil-

FOR SALE-7 room house, 3230 Ridge iam White, Deceased. Elizabeth Ann White having filed in said court her final administration ac count, and her petition praying for the

> ment and distribution of the residue of eald estate. It is Ordered. That the 27th day of November A. D. 1912, at ten o'cleck in the forencon, at said probate office, be and is hereby appointed for examining

dlowance thereof and for the assign-

and allowing said account and hearing said petition: It is Further Ordered, That public otice thereof be given by publication of a copy of this order, once each week for three successive weeks previous to 1624 said day of hearing in the Calumet

News, a newspaper printed and circualed ir said county. GEO. C. BENTLEY. true copy. Judge of Probate

Lillas G. Mitchell. Register of Probate, I dis . A it